

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. **(currently amended):** A process for producing a saccharide having a lowered molecular weight, which comprises ~~at least a step of~~ irradiating an electron beam to a polysaccharide fraction- in a solid state at a dosage of d (kGy) which satisfies the following equation:

$$n = M e^{ad}$$

wherein M represents a weight average molecular weight (Da) of the polysaccharide fraction and is a number of 5,000 to 70,000; n represents a weight average molecular weight (Da) of the saccharide having a lowered molecular weight and is an optional positive number; e is the base of natural logarithm; and a is a number of -0.008 to -0.004.

**Claim 2 (canceled).**

3. **(currently amended):** The process according to claim-21, wherein a is a number of -0.008 to -0.005.

4. **(original):** The process according to claim 3, wherein a is a number of -0.0075 to -0.0050.

5. **(original):** The process according to claim 1, wherein the polysaccharide fraction to which the electron beam is irradiated is a glycosaminoglycan fraction.

6. **(original):** The process according to claim 5, wherein the glycosaminoglycan fraction is a fraction comprising at least one species of glycosaminoglycans selected from the group consisting of hyaluronic acid, chondroitin sulfate, dermatan sulfate, keratan sulfate, heparan sulfate and heparin.

**Claims 7 -20 (canceled).**

21. **(currently amended):** A process for producing hyaluronic acid having a lowered molecular weight, which comprises at least a step of irradiating an electron beam to a hyaluronic acid fraction which has a weight average molecular weight of 600,000 to 1,200,000 (Da) and is in a liquid state at a dosage of 10 to 80 (kGy).

22. **(original):** The process according to claim 21, wherein the hyaluronic acid fraction to which the electron beam is irradiated has a weight average molecular weight of 600,000 to 1,200,000 (Da); the dosage is from 10 to 30 (kGy); and the hyaluronic acid having a lowered molecular weight has a weight average molecular weight of 2,500 to 4,000 (Da).

**23. (original):** The process according to claim 21, wherein the hyaluronic acid fraction to which the electron beam is irradiated has a weight average molecular weight of 600,000 to 1,200,000 (Da); the dosage is from 30 to 50 (kGy); and the hyaluronic acid having a lowered molecular weight has a weight average molecular weight of 1,700 to 2,500 (Da).

**24. (original):** The process according to claim 21, wherein the hyaluronic acid fraction to which the electron beam is irradiated has a weight average molecular weight of 600,000 to 1,200,000 (Da); the dosage is from 50 to 80 (kGy); and the hyaluronic acid having a lowered molecular weight has a weight average molecular weight of 1,300 to 1,700 (Da).

**Claims 25 - 36 (canceled).**